

U. S. DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY

Form BI-689

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FIELD DIARY

Mr. E. A. Goldman

(Official title.)

Period, Dec. 16, 1934 -

Jan. 17, 1935

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Dec. 16, 1934,
Left Washington, D.C. 3.05 a.m.
When I got up train was
approaching Greensboro, N.C..
Day spent running through
the barren pine-ridge or
Piedmont country.

Dec. 17.
When I awoke train was
approaching Wilson, N.C.,
Looking through a stand of
long-leaf pines toward the
east I saw wonderful deep
red cloud effects as the
sun had not yet risen.
General aspect of the country
not the warm southland.
Arrived New Orleans 9 a.m.
Left 7.55 a.m. after transfer
to S. & N.

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Dec. 18.

Arrived San Antonio, Tex, 7 A.M.
transferred to M.P. depot and
left for San Pedro Garza 8 A.M.
Road runs through mesquite
country typical of the region.

Heaven saw unusual of
this season had been falling.

Arrived Garza 1 P.M. At
Hotel Hamilton found Fulton
waiting for me. In afternoon
we took taxi across to
Nuevo Garza where we
called on American Consul
Remeyn Warrnuth also met
Vice Consul Harper and
began arrangements for
crossing border. We were
guests in the evening of
Warrnuth and Harper for
a dinner in Nuevo Garza.

Dec. 18 con.

Had a Ramos Gin Fizz
at a Mexican bar there,
reminding me of old times
in New Orleans.

Dec. 19

Remained in Taredo to
complete arrangements for
entering Mexico. Obtained
passports and a permit for
carrying a pistol into
Mexico.

Dec. 20

Left Taredo 1:10 P.M. and
Taredo 3 P.M. by train on
N. line of Mexico.

Route through flat country
ascending gradually. In
evening the sun went down

Dec. 20 con.

Behind steep mountains as we neared Monterey, sending slanting shafts of light toward the sky. Soon darkness fell and a full moon, low over the horizon, dominated the landscape. Veg. Mesquites, cacti, boquilla.

Dec. 21, City of Mexico.

Early morning we were approaching San Luis Potosí where we arrived at 8,45 A.M.

Vegetation had changed overnight. Cacti more abundant and organ cacti with low, ~~tree~~ many-branched top became one of the dominant species. This with the familiar pepper trees

Dec. 21 con

was with us all day.

Route is through the plateau region, the road winding much of the way over rolling plains or partly broken country with high mountains rising in the distance nearly all along the way.

Arrived Mexico City 10.10 P.M. Met a Mr. Jones on train and he took us to American Club.

Dec. 22. At Mex. City.

Met Kirby Smith a son of Confederate general at Club also several others including W.B. Ward a timber man who has travelled extensively.

Dec. 22 con.

Called on Amer. Ambassador,
Hon. Josephus Daniels and
on Consul General Bowman.
But it is Saturday and too
near the holidays to do
much.

Dec. 23 (Sun.). At Mexico
City. Mainly writing letters.

Dec. 24 (Mon.). At
Mexico City.

Mainly in locating markets.
Market. Visited Plaza de la
Merced, the largest in the
city. Found a single staved rail
to be the only one in the
large market where ducks are
sold. Woman had about 80 all
told. Of these more than
half were pintails, second ✓
6

Dec. 24 con.

most abundant cinnamon teal, third in order green-winged teal and fourth spoonbills. Pintails retail for 75 cents each and teals at 30 cents.

Dec. 25, At City of Mexico.

Markets. Visited Plaza de la Merced, Mercado de San Juan de Ixtlan, and market on Ave. Ribera de San Cosme. At the first, where we arrived early, we found about 75 ducks on the stand, most of which were pintails.

Plaza de la Merced, Total 75

✓ Pintails - 60

Green-winged 7

Spoonbills 6

Cinnamon teal 2

Dec. 25 con.

San Juan de Tlatran

Total 150 ^{ducks} on display in 3
places

✓ Bobwhite - 12

✓ Pintails - 100

✓ Bluewing - 10

✓ Greenwing - 10

✓ Spoonbills - 25

Cinnamon - 5

Curlew - 1 (long-billed)

Market ~~Area~~. Ribera de San
Cecilia: Total ducks. 15

Pintail - 12

Cinnamon - 2

Widgeon - 1

Jackrabbits (white-tailed) - 15 }
Cottontails - 10 }

in San Juan de Tlatran.

Dec. 26, at City of Mexico.

Market, Vited Mercado de
Tepito, out Republica de Argentina
to Plaza de San Bartolomé de
las Cajas. Market extends for
blocks and we were told that
a few ducks are brought in and
sold usually on Sundays.

Market, Vited San Juan de
Gilman. Saw about the same
birds as yesterday, but found
some in sale of a few additional
storks - about half a dozen
all told.

✓ Pintail. Price ^{asked} ~~offered~~ \$1.20 per
pair.

Dec. 27, at City of Mexico,
Amer. Embassy, conferred with
Ambassador and started arrangements
for letter through Embassy.

Col. G. Ray, called on him for
few minutes but found him very
busy. To see him later. Says
ducks greatly reduced in numbers.

Alexander K Sloan, Consul.
Saw him in absence of Thomas D.
Borman, Consul General, and
he introduced us to Kent
Leavitt, Vice-consul and to
Kenneth Littlejohn. From both of
whom general information was
received.

Dec. 28 At City of Mexico,
Alvaro H. Djida, to J. J. Ruiz
y Huas, 16 de Sept. 26, conferred
with him and got considerable
general information and references
to others. Sport club has been
organized here.

Hunting clubs, Being organized
in Mex. and there is obvious
need for game ^{and forest} management.
Too heavy cutting of timber to
make charcoal said by Djida
to be destructive.

El Peñon Viejo, conferred
with Antonio del Conde,
Editor, La Gaceta y Pisco.
Belmar, 24. and we were
taken by him on trip out
on road to Puebla past
the lagoon at El Peñon Viejo
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Dec. 28. con
and circling to the right
through lechales and Kochiumes
and the chinampas. At
Périm the water was lower,
but good and general conditions
good but no ducks. To the
left of road territory where I
saw armadas filed is now
dry.

Dec. 29. At Mexico City
Guillermo Wolff, Uruguay 51,
Presented letter and he gave me
considerable general information
Natural History Mus. Visited
Museum.

J. J. Ruiz. Conferred with him
and arranged for trip tomorrow.
with - Vallero, on
road to Pachuca an hour from
Mexico City. 12

Dec. 30, at Mex. City.

Trip with Luis G. Salas,
for Sunday shoot at La Cueva
near Santa de Capitan road to Pachua
about ^{28 kilometers} ~~one hour~~ from Mex. City.
Shallow, marshy lakes, bordered
by grassy areas opening into
water - grass looking much like
salt grass.

Black-necked stilt - about 15
Mudhen - Thousands - most about 100.
Pintail - most about 75% about 5' ^{Small} ^{Small} ^{Small}

Widgeon - A few -

Bluewing - About 500

Bluebill - A few

White pelican - About 100

Cinnamon teal - About 1000

Greenwing - About 500

Ruddy - About 200

Canvas back - A few small flocks

Spoonbill - A few

About 9 hunters went out, each

Dec. 30 con.

a boy who retrieved the birds
shot. Some of the retrievers
used darts or light spears
made by attaching pieces of
metal in some instances nails
which had been worked over
so that they bore a reversed
bark like a fish hook. There
are thrown at birds that ~~are~~
~~all~~ can not readily be caught.
No one in the party killed
over about one dozen ducks

Dec. 31.

Conferred again with
Ambassador and received
letters for official use.
Visited National Museum.
Party in evening to see old
year out.

Jan. 1, 1935.

City of Mex. - Walked from Club out to Chapultepec and completely incircled the castle through the forest surrounding it. The forest is small but quite wild and dense. It contains numerous giant cypress trees.

Afternoon devoted to correspondence and preparation to leave for Acapulco in morning.

Jan. 2. Mexico City to Acapulco. Good highway to Cuernavaca and road fair rest of way. Route is through very rough country and road is very crooked with sharp curves but few steep grades. Off at 7 A.M. and did not

Jan. 2 con.

arrived until after dark.
Wonderful sunrise with
colored cloud effects, the
sun rising behind Titicaca
throwing both volcanoes into
bold relief that faded
rapidly and ~~the~~ ^{new} joy
soon enveloped us as
we climbed out of the
valley on the road to
Ayacucho. Below Luenamaca
are deep, steep-sided
canyons that look excellent
for work. Passed through
Tayco, a picturesque town
built high on the side of
a mountain. Apparently
tropical at Tayco but a
plum tree droop-leaved
or ~~box~~ - leaved juniper

grows abundantly ^{Dec 2m.}
Cypripedium grow as dominant
stream - side trees below
Cuernavaca.

Jan.
~~Dec.~~ 3. Acapulco.
Leonard with W. H. Hudson in
morning and in afternoon drove to
on Laguna de Chapala

Ciudad de la Cruz - about an hour
north of Acapulco.
Iron - Sm. bl. brownish h. 2 feet
Aegialitis vocifera - 1 along stream.

Wood ibis - 8

Pedicularis pol. - 3

Egret (large)

Egret (Sm.)

Zenaidura macroura.

Snake birds - common.

Apanico - fl. fl. tree that
drops leaves. Very abundant a
typical species along coast
near Acapulco and Lower
tropical indicator.

Life zones. Tropical should
be split at around 3500 ft.
on average slopes.

Grown ab. ^{Dec 21} ~~Dec 21~~

Jan. 4.

Route today was by auto to Pie de la Lumbre where we came to south or eastern end of Laguna de Coayuca. There we took motor boat at least 15 miles through lagoon and through mouth of a channel connecting with another lagoon. General area rich in aquatic vegetation. Very large mangroves seen, some at least 50 ft. high.

Fire burning in tules, showing flames and large cloud of smoke.

Jan. 3 con.

Life Zone. In this lat. morning glory and cypresses trees may be upper tropical indicators.

Jan. 4. Acapulco to Laguna de Coayuca. Off from Pie de la Lumbre 8:45 AM. Return to town 7 PM. about 18 Kiloms to La Brea and about 5 miles farther to tule swamp where we lunch. Back

Bluebill - common	} Picture on post in Laguna de Coayuca.
Blue winged teal - 100	
Pintail - 500 - ¹⁰⁰⁰ 1000 ¹⁰⁰⁰ 1000	
Snake bird - ¹⁰⁰⁰ 1000 ¹⁰⁰⁰ 1000	
^{Quercus} Quercus ^{dura} dura ^{mac.} mac.	
Jacana	
Mudhens.	
Black-necked stilts	
Tree ducks.	

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Total ducks 50000 mostly water + recruits.

Jan. 4 con
Mangroves - border lagoon.
Water hyacinths in belts.

Godwits (2, marbled)

Widgeon - 4 - mixed with
about 250 mudhens (buras here)
along edge of a raft of water
hyacinths.

Great blue heron. Several
white egret, Pigeons
Fish hawk - sitting in tree above
as we approached

Cormorant - 5 in a group Pigeons
and 1 turtle.

Codilymbus pod - 2 ^{among} ~~in~~ water
hyacinths.

Green Iguana - Swimming in (19)
middle of channel near La Barran

Jan. 4 con.

Pitangus arbianus. Common

kat tail flaps (about 8 ft. tall)
Bring with large flaps & much rust
White Ibis - 16

Glossy Ibis? - 1 ^{wood Ibis}

~~Stark?~~ - White upon surface
with black tipped folded wing
& black head. Stark up near
straight.

Lagoon - adjacent to acacia
flats.

Laguna de Coyuca - about 10
miles & varying up to a mile
wide.

Phrynosoma mura - ^{on road for near} ~~Said a flock~~
Wh. water lilies - abundant

Jan. 4 con.

Leane braken - Border lagoons where
banks are high & ~~they~~ will drain.

Polyborus cheriway - about
a dozen in various places ^{on mangroves}
along shores of lagoon.

Willetts - about 25 in a
flock near La Barra.

Redwing Black birds - Leane^c
along shore of lagoon.

Boat-bill - In mangroves on
shore of Laguna de Lagunilla.
A hundred

Ruddy - about half a dozen
on open lagoon.

Killdeer - 1

Jan. 5. Acapulco to
Laguna de Tres Palos. Off 8 A.M.
& returned 6 P.M. Spent the day
about the lagoon but wind
was rather high and we did not
get out on it. General evidence
indicated that it carries thousands
of scaups and considerable
numbers of pintails.

Mudhens - 75	} Seen by Guethen along with others of Laguna de Tres Palos.
Pintails - 50	
Tree ducks - 50	

Murcovy (A large duck called here
"pato real" said to live in
manglars most from the
description be this. Said to
perch on trees and most readily
approached at night.

Jan. 5 con.

Tessier scarp ^{Hindley Pass} } Laguada
a pair of ^{separate} ^{each} } Tres Palos.
Ruddy - Several along there.
Mudhen, Small groups in various places

At small inlet of Laguada by Tres Palos. Water nearly covered most aquatic plant known as "luchuga" with open areas here and there. Here on a few acres of water surface with sandy shores timbered in most places we saw the following

Pintail (about 50)

Blue-winged Teal (about 50)

Tree duck (5 sitting on the limb of an old tree ~~bank~~ close over the water, These had reddish brown black belly grayish on
fulvous face and reddish line 23

Jan. 5 con
down back of neck,
On park bar in
Willit - River near Tres Palos
^

Jan. 6. Acapulco to
Mexico City. Off on bus at
6.30 A.M.; arrived Mexico City
7 P.M.

En route - Impressed again with
changing conditions along this
road. General route is through
broken country ascending and
descending but rising more rapidly
to the high bench, or valley in
which lies Tehuacan. The road
crosses a low divide west of
Tehuacan and descends a few
hundred feet to the valley. This
divide is overgrown with an
abundant stand of a peculiar kind
of agave with ^a peculiar kind
of ¹²⁴ ~~fruit~~ ^{fruit}, numerous,

Jan. 6 con.
rather short leaves. The mountains
back of Acapulco stand out
from the main ~~Sierra Madre~~ ^{Sierra Madre}
a somewhat ~~very~~ isolated range
connected with the Sierra Madre
del Sur by rather low hills. They
appear to be about 3000 ft. high.

Tayas. The town is situated on
the slope of a rather barren
appearing mountain mass of
considerable height. It here I
noted a lax-leaved juniper
which grows as a dominant
species associated with live
Sporocarpium. This mountain mass is
~~also~~ fairly high and isolated
and would probably be
much more fertile near the
top.

Leucomeris, apparently but

Jan. 6 con.

tropical, but it is only a short distance ^{and other things} up to beginning of pines, along a rather sharp line. In about 45 minutes from Cuernavaca we were on the summit of the mountains on the road to Mexico City.

Life Zones. The tropical seems clearly divisible here into upper and lower and divisions. Upper Division characterized by such plants as the *Ipomoea* which does not appear in lower division. It seems doubtful whether

Lower Sonoran can be recognized as such. A belt above the tropical might be called simply Austral or temperate. Above this is a belt extending across summit in

Jan. 6. con.
which the mountains are open
and grassy (saccaton) and a
pine is almost the only tree,

Jan. 7. Mexico City.
Conferred with Consul-General
and obtained information.

Met Osgood at Sanborn's

Visited market of San Juan
de Tetran, ~~about~~

Ducks all ^{about} ~~total~~ about 100.

Cintail - 75 ^{about} 76

Green-wing - 25

Common - 2

Blue-wing - 2

Ruddy - 2

Pato real - 2

Spoonbill - 5

Curler - 12

Jan 8. Mexico City.
Visited Market of San de Tetra
Birds about same as yesterday,
evidently a number had been
sold and culls were gone.

Ducks. Most of ducks offered
have been picked leaving feathers
only on heads and tails. Many
bear the blue mark of meat
inspector.

Conferred with Director of
Sanitary, game & fish

Jan. 9, Mexico City.
Made preparations for trip and
left 8.45 P.M. for Morelia.

Jan. 10, Morelia, Mich.
Arrived Morelia 10.22 A.M.
Trip in afternoon to points along
Morelia River.

Marshes. Extensive marshes filled
with patches of water hyacinths,
smartweed and many aquatic
plants. No ducks.

Pack filled cube - 6

Jan. 11,
off 8 30 A.M.

Went on to La Solada near
Maula, patches of lily, water
hyacinths - good water and food
conditions. Were hunting in
camouflaged canoe. Saw him
shoot several pintails.

Pintail

Lesser scaup

} Several small flocks
of about a dozen birds.
Ducks in a lake
in the forest.

Marsh areas near mouth of Maula
River.

Marshy plain at least 2 x 4 miles
in extent. Waterfowl somewhat 2
on a flooded area about 2 miles
in diameter or roughly 4 sq. miles.

Ducks - Total estimated at
25000.

Pintail - Most abundant of all

Pintail.

In a flooded cornfield near
La Solidad a pintail seen
feeding

Jan. 11 con.

going into thousands
Lernaeum teal - thousands
Anas diazi - 2, 11 - thousands
Green-winged - 2, 11 - thousands
Olive-winged - "A few
Canvasback - hundreds
Spoonbill - a few
Gull - a few
Mallard - hundreds
Killdeer - several
Cowbird - hundreds on wet plain
Meadow Lark - Half a dozen - 1 male,
Western subs.
Sagittaria com. in marsh.

Take Counters - Ducks in
considerable numbers, looking
dark. Too far out to identify.

Pelicans - white pelicans in
scattered groups aggregating
hundreds.

Willet - 3 along shore

Jan. 18, Mexico to
Palzcuari - Off on train 10:27
arr. - arrived Palzcuari 12 M.
2 P. - on Lake.

Widgeon - 1500

Mallard - 2000

Bufflehead - a few

Pintail - 1200

Bluebill - 1000

Common teal - 1200

Lesser scaup - 300

Rosetta - 100

Jacana - a few

Pintail - 200

Jan. 13 Lake Pátz,
8:45 AM on lake
B. H. had. Several pairs
permanent pairs.
Redhead - 50
Spoonbill - 12
Gadwall - 20 large pairs
Pied-billed grebe - 50

Feria - About 35 canoes
took part in an organized
hunt for ducks and coots,
the Indians using
to spear ducks.

Trip to Extremo. In evening
were taken through town and up
to the village an artificial
levelled space on the lake. St.
Mr. San Miguel offered
views of the lake.

down we found a covered
shed-like structure where a
large group of natives was
dancing, the "Jarabe"
celebrated a wedding.

Statue of Moulot, Being
built of gigantic size on
the island of Anichio

Jan 14, Lake Patz,
off 9/15 AM on lake
Widgeons - flock of about
50 with several Bluebills
intermixed.

Bluebills - 3 or 4 with a flock
of about 50 widgeons

Cattails (Large size grow in
water along shore)

Reeds (round) growing along
shore.

Depth of Lake Patz. Recent
soundings said to show a
depth of 125 meters in the
Broad northern arm shore line
thence steep & rocky.

Lake Patz. Large northern
arm traversed. A little marsh
near Zinzunzan, but shore

lines in general abrupt
and practically no ducks
seen there. Fishermen
living all along shore and
they undoubtedly intensify
pressure on, remarkably
ducks.

Wheat. Small patches back
from shore.

Jan. 14 con.

Lake Patz, neighboring summits
nearly all old volcanic cones
covered with vegetation to
their summits. In general
form of crescent 10 to 15
miles long and 2 to 3 miles
wide.

Navigation. - A one point on
shore we saw a water lifting
system in operation. It
from anything I had seen
before. A wooden cross beam
held out a pool is used as a
fulcrum and a pole with scoop
attached was dipped by operator
into pool and water thrown with a
jerk into basin above from which
it was thrown into a sluiceway.

Ratz. to La Barca

Jan. 14. con

same in the same way.

Great Blue Heron - several

Jan 15 → Ziragnen Jan. 15

Lake Lirnen Trip in

Morning to Lake Ziragnen
west of Apurimac mountain
lake on pine timber,
some marsh at one end
but just on road
now, Lake about 1/2 mile
across and 3/4 mile long

Janicho - Island with
alter to Morlos.

Tingumam - Village
near head of Lake where
painting?

Jan. 15 con.
Left 12.27 for Pungama
via Agano in route to
La Barca arrived Pungama, 7 P.M.

Gophers, lots of diggings of
in light-colored soil just north
station Saracen and from station
to near station of Taranaki.

Dr. Alfred H. Henshaw
 Farmacia La Cruz
 Esmeraldas
 Esmeraldas

Jan. 15 con.
 Late South of Villachuma
 we passed a lake perhaps
 2 miles in length and a 1/4 mi.
 broad where there were
 water hyacinths and other
 aquatic growth and a
 few waterfowl only of species
 undetermined.

Jan. 16. Panjama to La Brea
 after visiting point near Panjama
 At 9:30 A.M. to examine ^{about 15 miles} ~~about 15 miles~~ ^{about 15 miles}
 south of town a few miles. Water
 for irrigation is impounded ~~in~~
 from rains from mountains looking
 down to Panjama.

White-fronted geese - 2000 ^{on low ground}
 White geese - 6
 Mallard - a few
 Pato real - about 500

Jan. 16 con.
 Pintail - about 500
 Mammals - about 500
 Pelican - 2
 Merganser - 6
 Scaup - dozens
 Godwits - ~~hundreds~~ about 500
 Curlew - dozens
 Canvasbacks - about 300
 Widgeon - hundreds
 Spadefill - a few "anchorman"
 Fulica - a few

In afternoon visited ^{near H.L.} Picoa Brangina
 near Pungamo.

Scaup - about 200
 Pintail - about 300
 Left Pungamo 6.15 PM; arrived
 La Barea 8.30 PM.
~~Spadefill "anchorman"~~

Jan. 17, La Brea

Continued

Letter to Dr. Luis Espinosa del
Juarz #19, La Brea, Jal.
and made trip with him in
morning to marshes along
Duero or Zamorano River
which flows from Zamora
into the Sierra de la. Ducks
were densely crowded along
banks of open water in marsh.

(1) Pintail - Thousands

(2) Widgeon - Thousands

Cato real - Hundreds

Cinnamon teal - Hundreds

Green-winged teal - a few

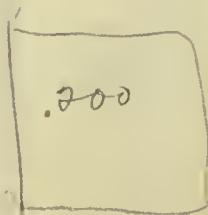
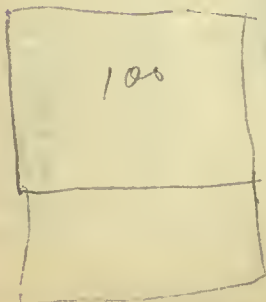
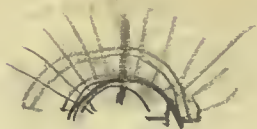
Spoonbill - Hundreds

Curlew
Godwits

Rosate Spoonbills - About 12
punched on low trees,
Gargenwh. hum
Sun. " " "

Here we saw probably
25000 and they continued on
up beyond our range of sight.
The general area is said to
extend up to Jamajou ~~about~~
In length it ~~would~~ reach for
at least 6 kilometers and is
in places a half mile wide.
Total ducks in the area
would probably exceed
50000.

James G. Shirley
Cerro de la Paja 153
Juan & Robert Ave.



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BUREAU OF BIOLOGICAL SURVEY.
WASHINGTON.
OFFICIAL BUSINESS.

U. S. Department of Agriculture,

Washington, D. C.

Bureau of Biological Survey.

~~C. G. Ray, 12 Street, Coahuila 301~~

~~Kenneth Littlejohn says see
man who has 10-yr. garden
store in Acapulco - Bull
consulting for information re
ducks.~~

~~Antonio del Corral
Edith Coza y Pozo
Bolivia 24.~~

~~Julio C. Estrada~~

~~Norman~~

~~Zahwys,~~

Neotomophilus adae Des
Apitzaco Mich.
2 sp. in Museo Nat.

Quercus caroliniana - 1 in Mus
Quercus *cinerea* Des, V. 6.

Romolopus degei - 1 in
Mus. labelled *Agave*.

Trichopus marotii 1 in Mus
labelled, Laguna Verde, alacualo,
V. 6.

Harpy Eagle - Mounted Spec
in Mus. Lab, Pinar del Rio,
Cayaco.

Beans, imperial
Nombre de Dios, D. C.

Alfredo Farrugia
5. de Mayo 54 B
(Beneficencia Popular)

Quinto Comandante
America Americana
for J. Madero 68

Gustavo W. Peff.
Uruguay 51, D. C. 26 top.
Gloss.

Ceratology esch.
1 in Mus. Zool. Jolapa
V. has white band all
around waist
